

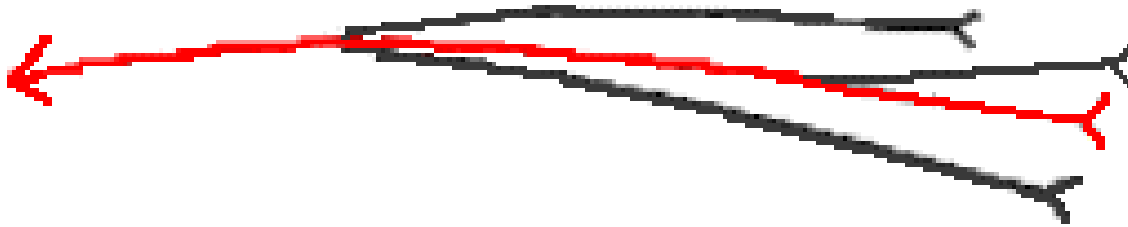
Module 9

Analyze Streamlines

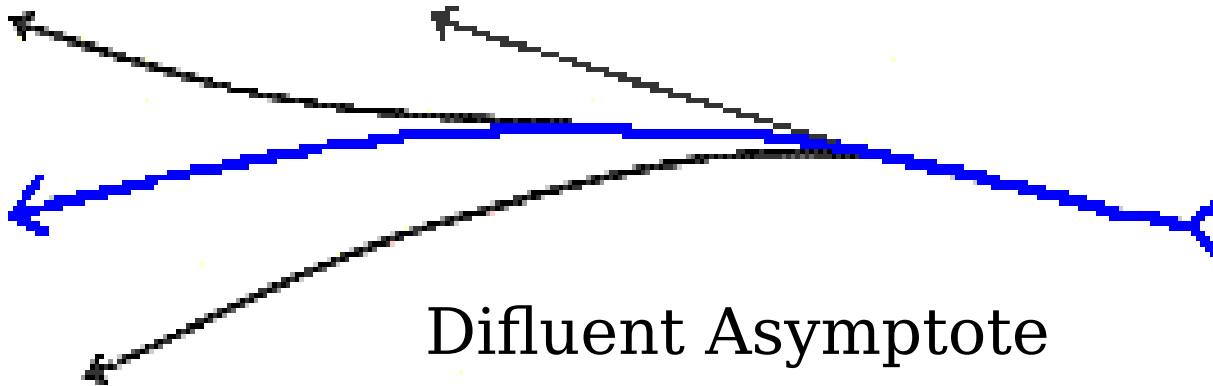
Objective

Analyze for asymptotes, confluent asymptotes, diffluent asymptotes, cusp, vortices, neutral points, to the satisfaction of the evaluator as indicated by a Go/No Go checklist.

Streamline Analysis Terminology

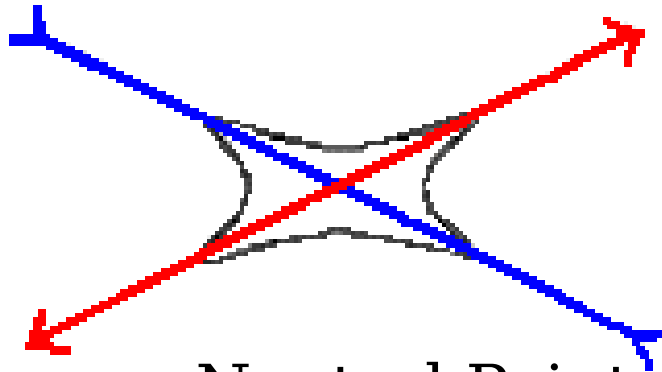


Confluent Asymptote



Diffluent Asymptote

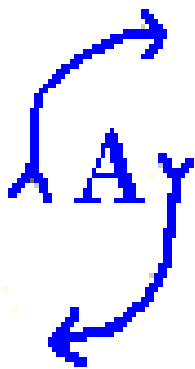
Streamline Analysis Terminology



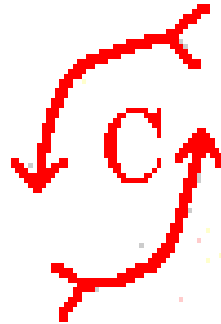
Neutral Point



Non-asymptotes
Streamlines



Vortex



Cusp

Uses of Streamline Analysis

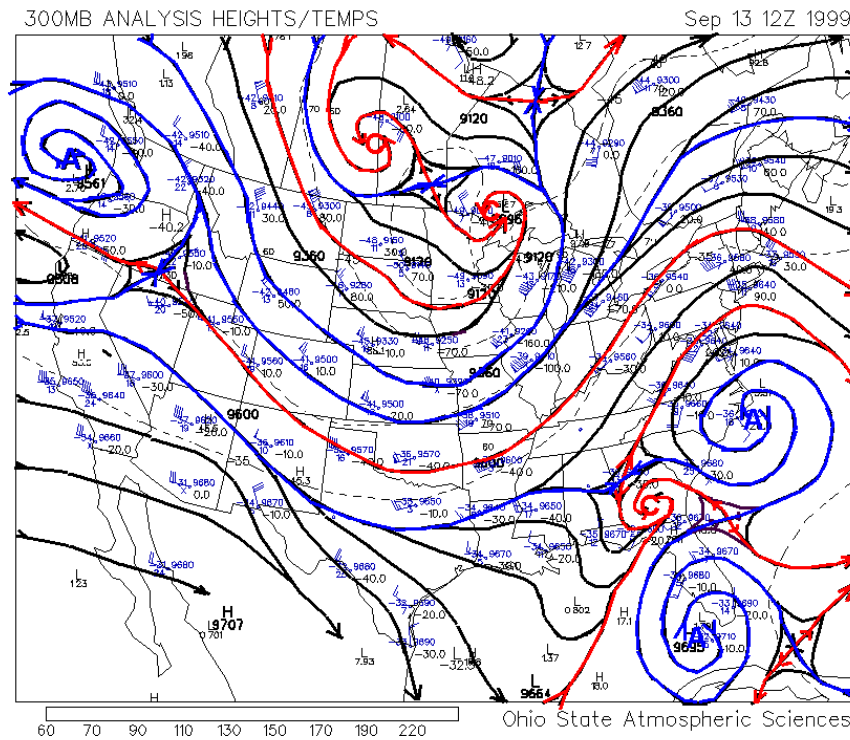
- Confluence/convergence
- Boundaries
- Determining flow
- Stack of surface features
- Areas of horizontal confluence and diffluence

Uses of Streamline Analysis - Continued

- Mesoscale to synoptic features
- Evaluating wind and jet stream
- Strength of a system
- Finding areas of expected change
- Briefing aid

Steps in Manual Streamline Analysis

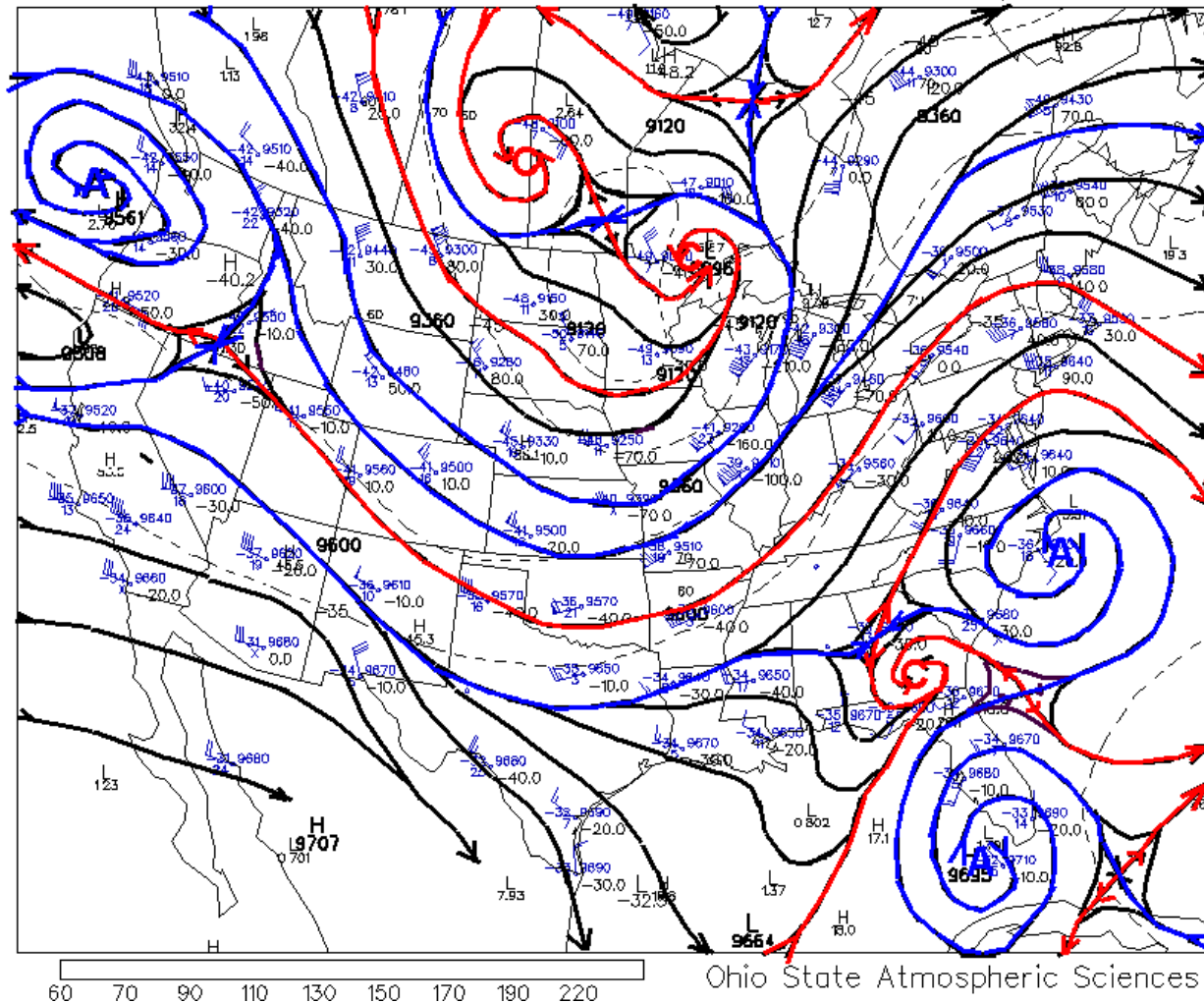
- Step 1: Pre-Analysis
- Step 2: Sketch streamlines
- Step 3: Check for errors and
harc



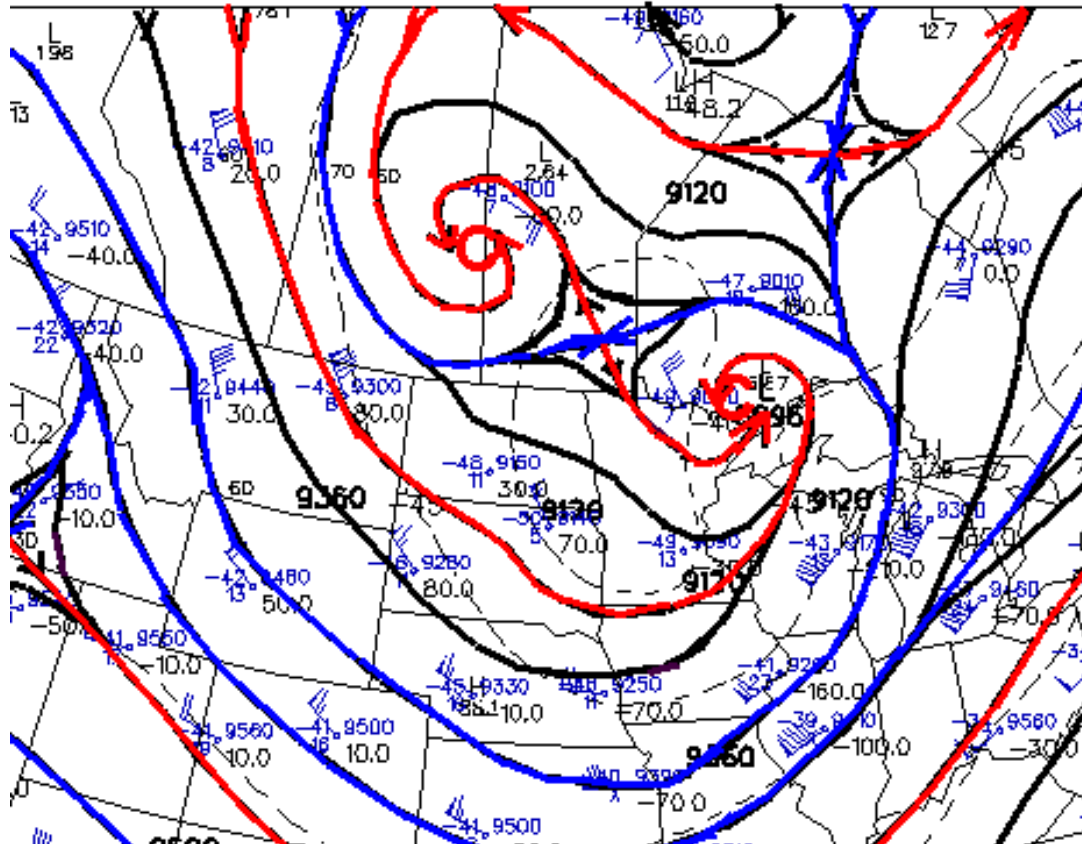
Streamline Rules

300MB ANALYSIS HEIGHTS/TEMPS

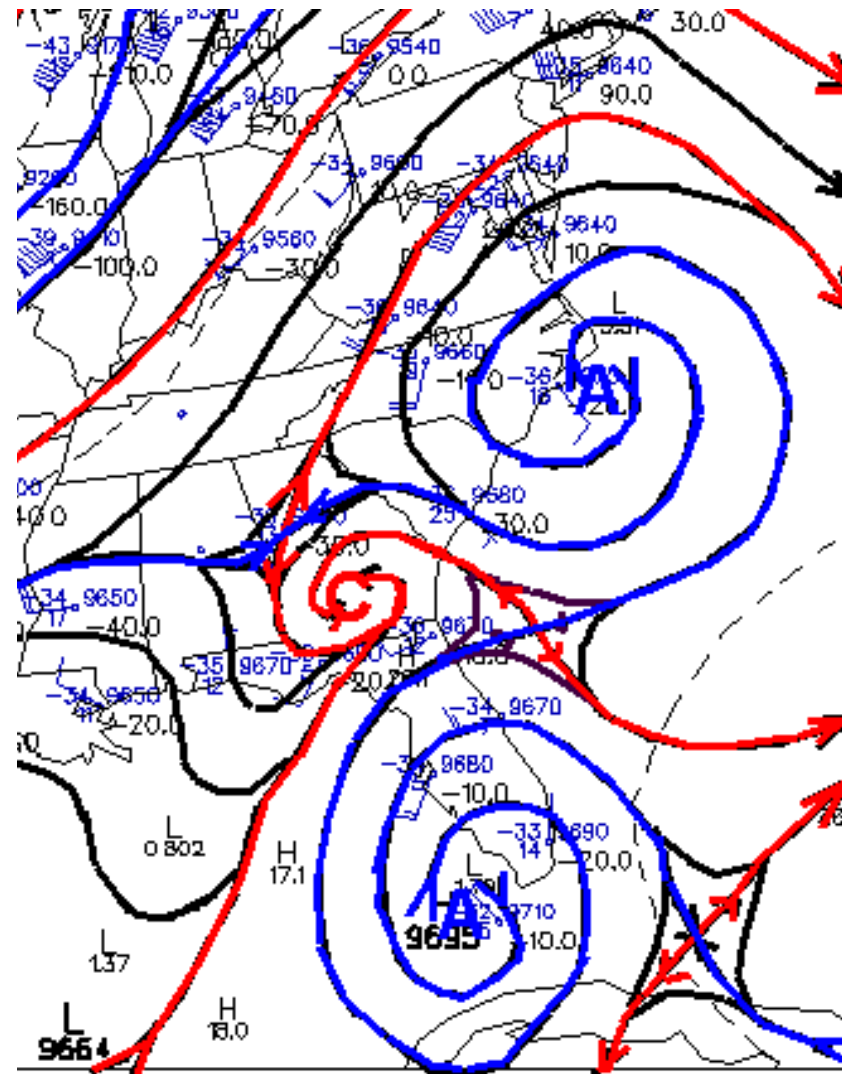
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Cyclonic Vortices

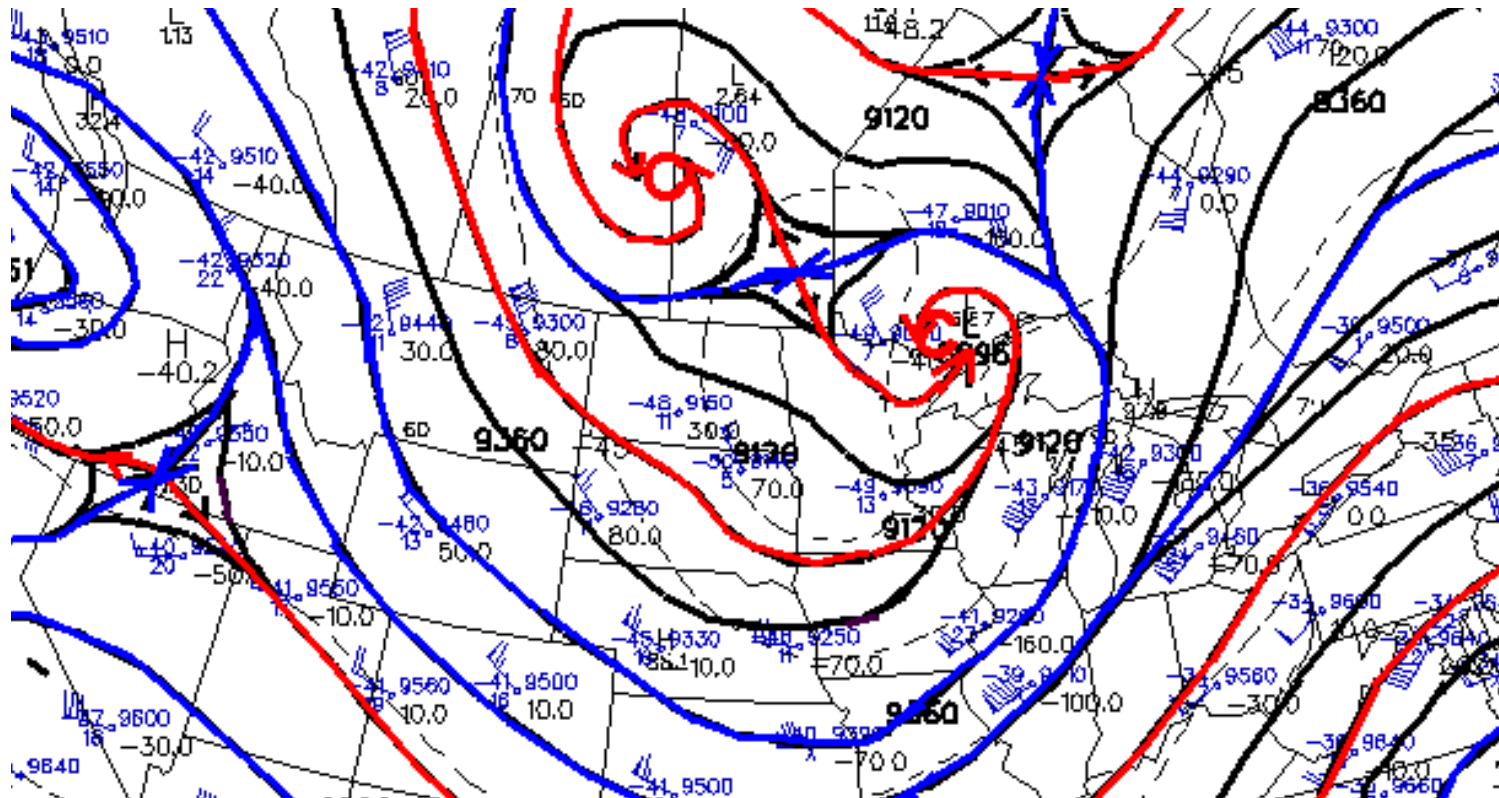


Anticyclonic Vortices

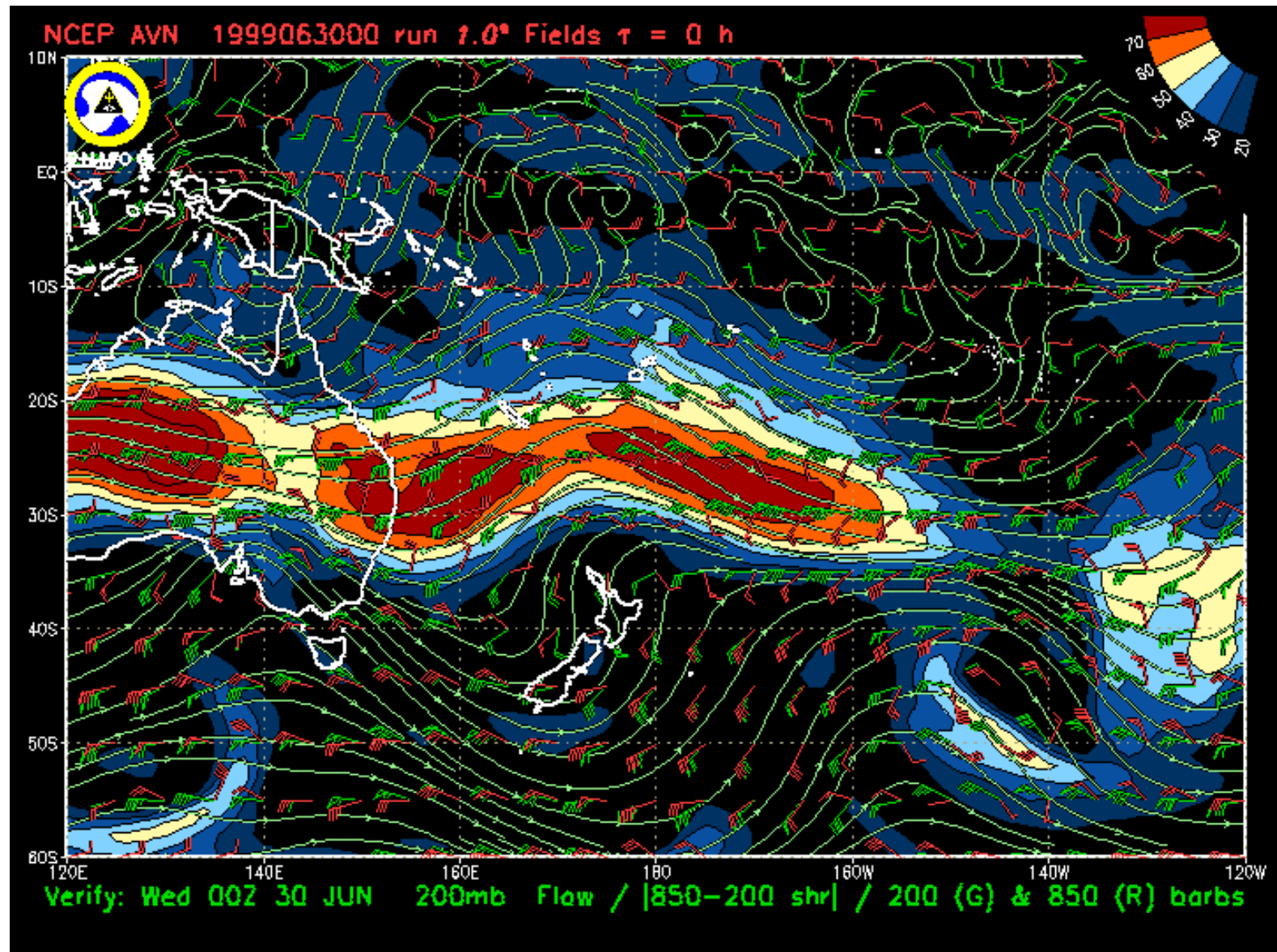


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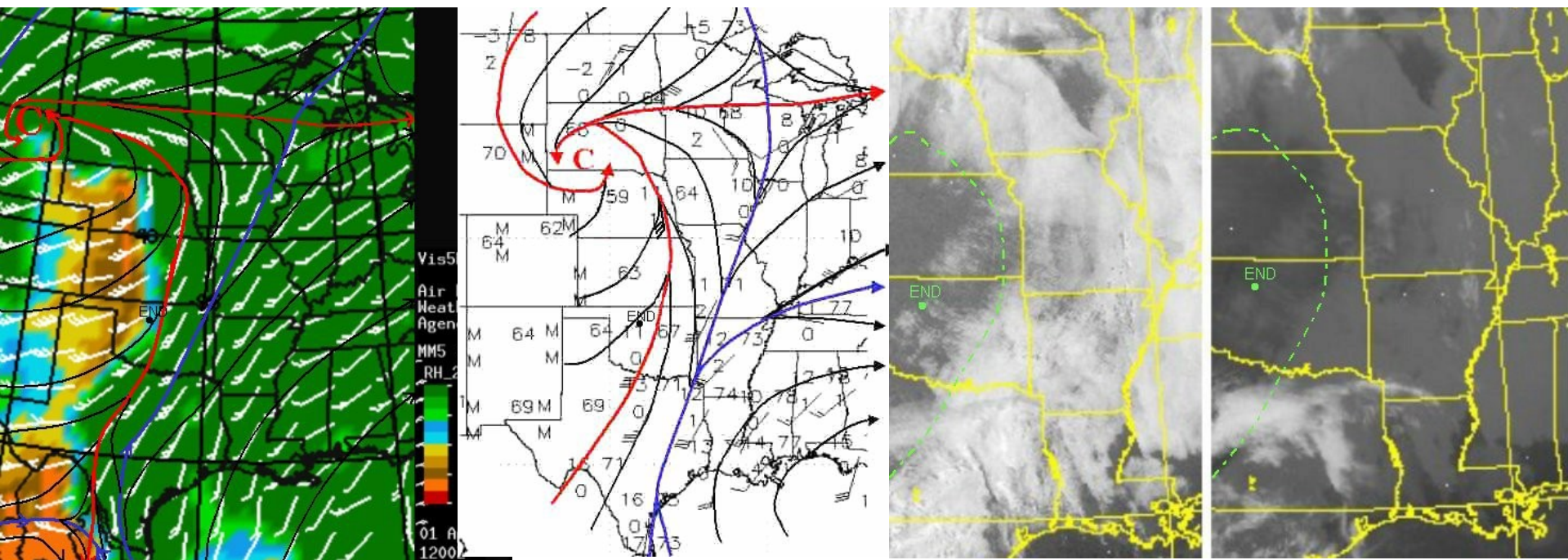
Neutral Points



Isotachs



Examples



Conclusion

Any Questions?